

Voyager Bulletin

MISSION STATUS REPORT NO. 64 AUGUST 20, 1981



Evidence of large-scale cloud systems centered at about 40-41° N are visible in this Voyager 2 image taken August 12, 1981 from about 13.9 million kilometers (the resolution is about 130 km). The bright cloud is a large-scale storm which moves in an easterly wind. To the west of this cloud are several light and dark clouds. The "ribbon-like" feature in the white band marks the high speed jet at about 47° N where the westerly wind speeds are about 150 meters per second.

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Voyager 2: Saturn Minus 6 Days

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SUMMARY OF ENCOUNTER HIGHLIGHTS AND CLOSEST APPROACHES

The fields and particles instruments are making continuous observations throughout the encounter phases.

Date	Time ^a	Event ^b	Voyager 2		Voyager 1	
			Distance ^c (km)	Resolution ^d (km/1p)	Distance ^c (km)	Resolution ^d (km/1p)
August 18		Trajectory correction maneuver				
August 22	7:56 a.m.	Iapetus	910,000	17	2,470,000	49
August 24	7:53 p.m.	Hyperion	470,000	8.9	880,440	84
August 25	4:04 a.m.	Titan	665,000	12	6,490	1.3
	5:31 p.m.	1980S6 (Dione B)	318,000	7.6	230,000	
	6:06 p.m. to 8:26 p.m.	Star occultation (Delta Scorpii) by rings				
	7:31 p.m.	Dione	502,000	12	161,520	3
	9:00 p.m.	Mimas	310,000	5.8	88,440	4
	9:00 p.m.	1980S25 (trails Tethys)	284,000	4.6	Existence unknown then	
	9:35 p.m.	1980S28 (outside A-Ring)	287,000	6.8	219,000	13.4
	9:45 p.m.	1980S26 (outside F-Ring)	107,000		270,000	111
	9:50 p.m.	SATURN	101,000 ^c		125,000 ^c	
	9:59 p.m.	1980S27 (inside F-Ring)	247,000		300,000	98
	10:11 p.m.	Enceladus	87,000	1.6	202,040	11
	10:20 p.m.	1980S1 (leading co-orbital)	223,000	6.9	297,000	6.3
August 25	10:26 p.m. to	Earth occultation (spacecraft is behind planet, no communication with Earth)				
August 26	12:01 a.m.					
August 25	10:32 p.m.	1980S3 (trailing co-orbital)	147,000	6.5	121,000	3.3
August 25	10:32 p.m. to	Sun occultation				
August 26	12:10 a.m.					
August 25	10:44 p.m.	Ring plane crossing outbound and descending				
August 26	12:28 a.m.	1980S13 (leads Tethys)	154,000	12.2	Existence unknown then	
	12:38 a.m.	Tethys	93,000	5.4	415,670	25
	12:55 a.m.	Rhea	645,000	16	73,980	1.3
September 4	7:59 p.m.	Phoebe	2,080,000	38	12,537,000	No pictures

^aTimes are Earth-receipt of signal, Pacific Daylight Time. Events at the spacecraft occur about 1 hour 26 minutes 35 seconds prior to the times listed above (one-way light time, with radio signals travelling at the speed of light).

^bNames indicate closest approach to that body.

^cExcept for Saturn, closest approach distances are from the center of the body. Closest approach to Saturn is given from the cloudtops.

^dBest resolution; best pictures are not necessarily taken at time of closest approaches due to lighting and other considerations.